

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW091619\
 Data File : VW013051.D
 Acq On : 16 Sep 2019 19:25
 Operator : SY/VA
 Sample : K4736-02
 Misc : 3.89G/5ML/MSVOA_W/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 FK-GF-02-045-A

Quant Time: Sep 17 07:23:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091419S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 13 17:26:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	311760	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	468352	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	384365	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	164174	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	155233	53.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.82%	
35) Dibromofluoromethane	7.88	113	132650	52.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.40%	
50) Toluene-d8	10.32	98	548231	55.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.26%	
62) 4-Bromofluorobenzene	12.62	95	242533	67.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	135.66%	

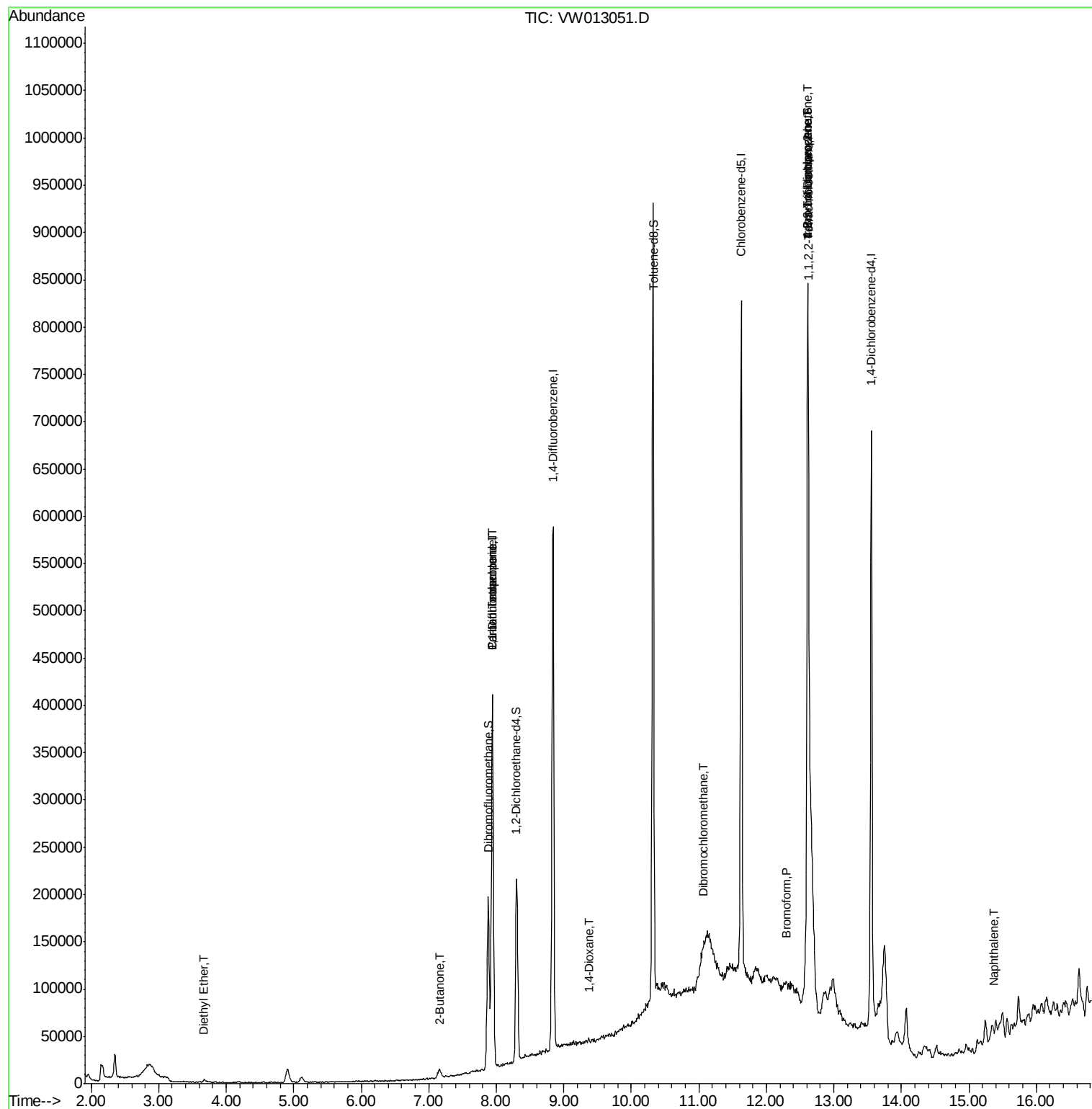
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.03	85	20	Below Cal	#	44
3) Chloromethane	2.20	50	346	Below Cal	#	1
8) Diethyl Ether	3.67	74	1454	1.193	ug/l	80
11) Tert butyl alcohol	5.18	59	321	Below Cal	#	49
13) Acrolein	3.98	56	25	Below Cal	#	1
16) Acetone	4.13	43	422	Below Cal	#	47
20) Methylene Chloride	4.90	84	10937	Below Cal		96
25) 2-Butanone	7.16	43	1078	1.177	ug/l #	53
26) 2,2-Dichloropropane	7.12	77	183	Below Cal		97
31) Cyclohexane	7.94	56	6879	Below Cal	#	24
36) 1,1-Dichloropropene	7.94	75	22924	6.125	ug/l #	55
38) Carbon Tetrachloride	7.95	117	29075	7.581	ug/l #	14
49) 1,4-Dioxane	9.37	88	29	1.301	ug/l #	1
60) Dibromochloromethane	11.07	129	11435	4.669	ug/l #	12
71) Bromoform	12.30	173	2183	1.584	ug/l #	29
75) 1,1,2,2-Tetrachloroethane	12.63	83	82406	43.116	ug/l #	27
76) 1,2,3-Trichloropropane	12.62	75	88564	61.587	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	88564	139.709	ug/l #	7
95) Naphthalene	15.37	128	10169	1.955	ug/l #	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW013051.D

Acq: 16 Sep 2019 19:25

Instrument :

MSVOA_W

ClientSampleId :

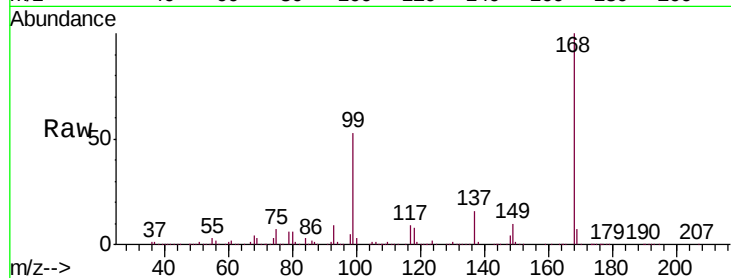
FK-GF-02-045-A

Tgt Ion:168 Resp: 311760

Ion Ratio Lower Upper

168 100

99 53.2 46.2 69.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

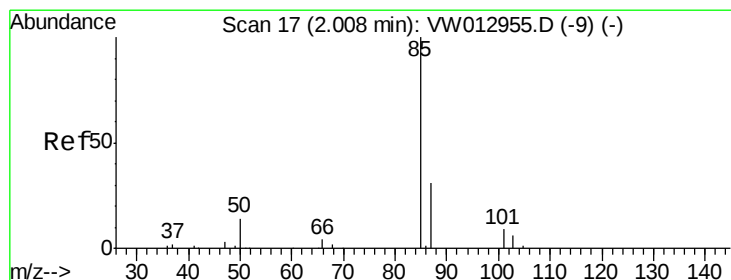
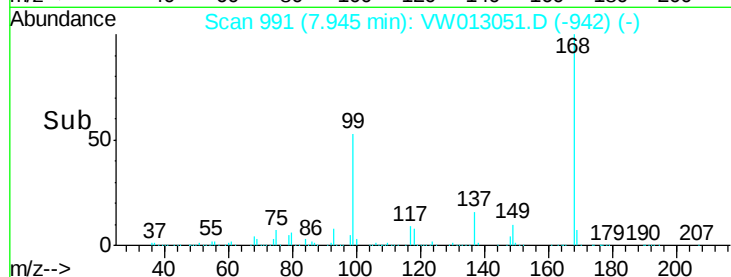
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.03 min Scan# 21

Delta R.T. 0.02 min

Lab File: VW013051.D

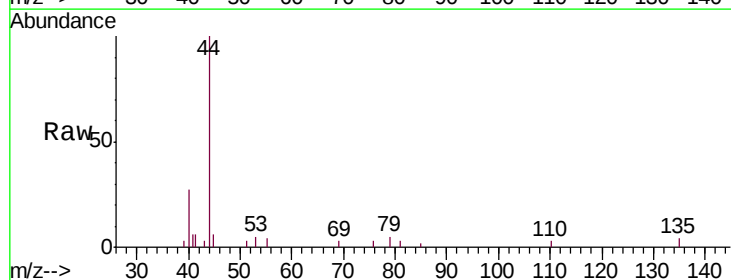
Acq: 16 Sep 2019 19:25

Tgt Ion: 85 Resp: 20

Ion Ratio Lower Upper

85 100

87 0.0 15.4 46.4#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.03

60

50

40

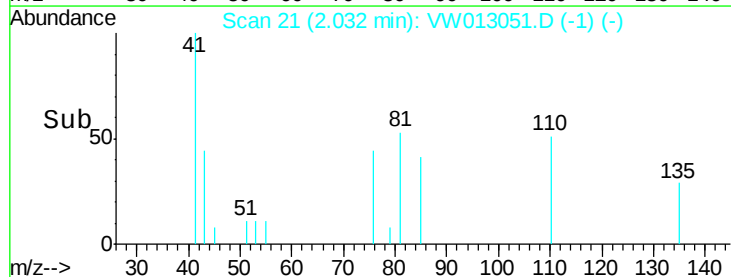
30

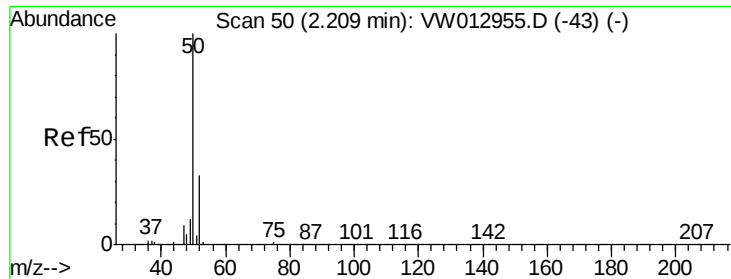
20

10

0

Time--> 2.01 2.02 2.03 2.04 2.05





#3

Chloromethane

Concen: Below Cal

RT: 2.20 min Scan# 49

Delta R.T. -0.01 min

Lab File: VW013051.D

Acq: 16 Sep 2019 19:25

Instrument :

MSVOA_W

ClientSampleId :

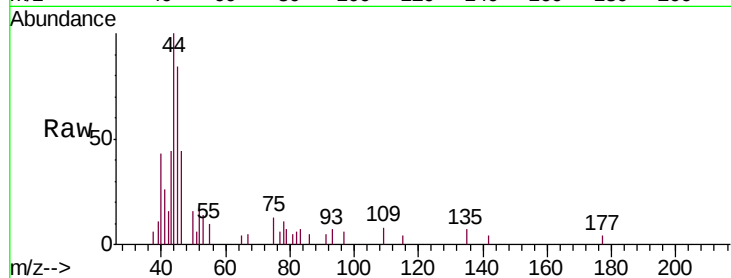
FK-GF-02-045-A

Tgt Ion: 50 Resp: 346

Ion Ratio Lower Upper

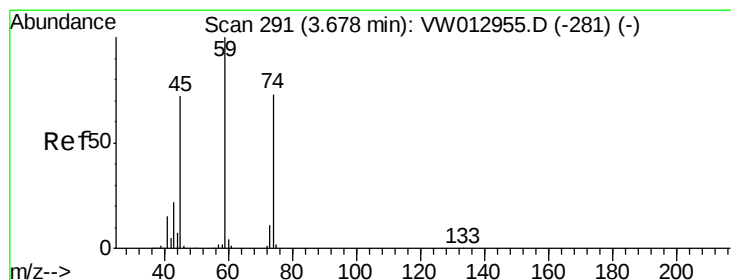
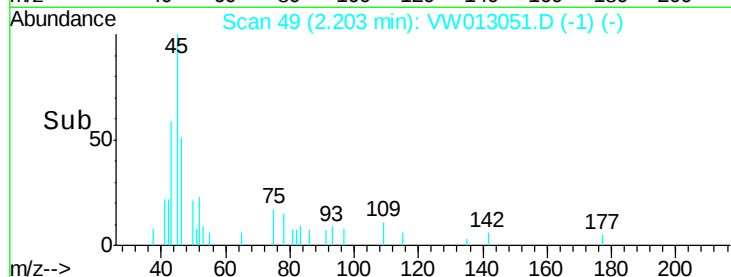
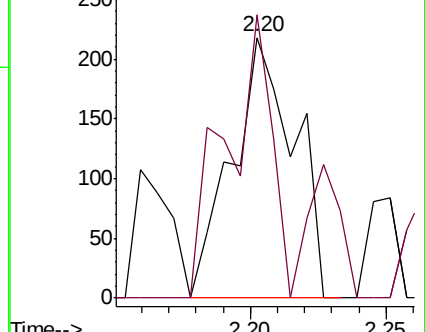
50 100

52 108.7 26.6 39.8#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW



#8

Diethyl Ether

Concen: 1.193 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW013051.D

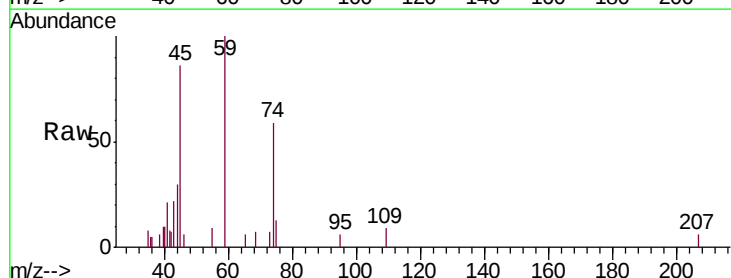
Acq: 16 Sep 2019 19:25

Tgt Ion: 74 Resp: 1454

Ion Ratio Lower Upper

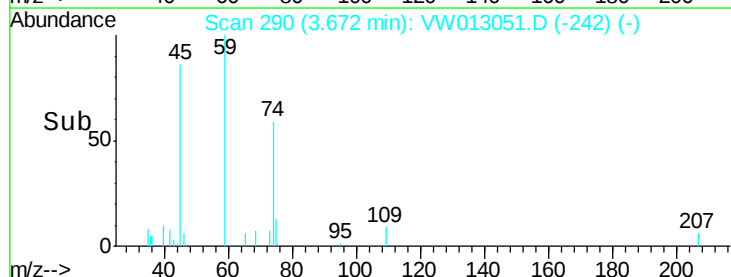
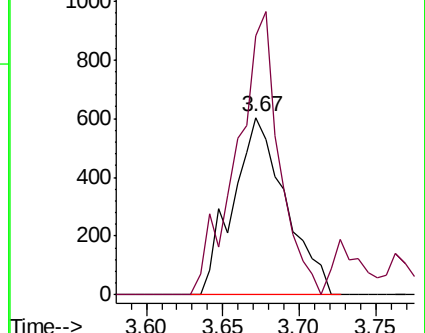
74 100

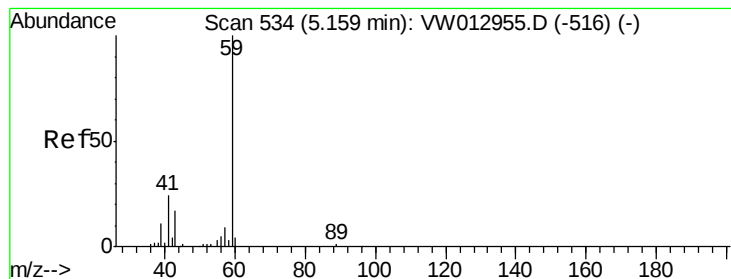
45 128.1 53.8 161.4



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW



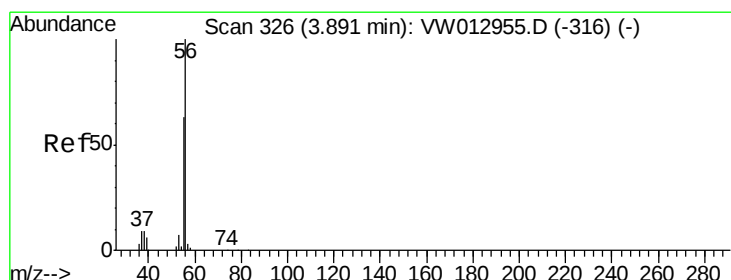
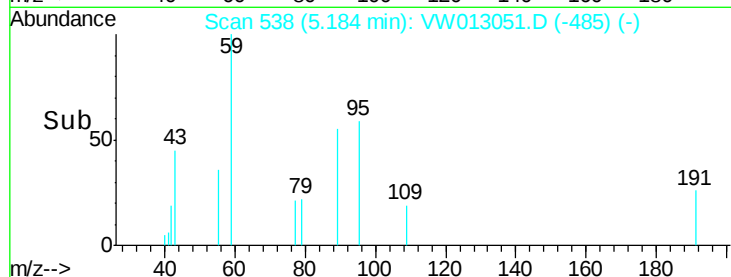
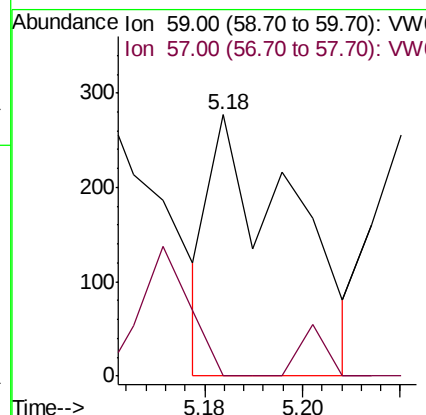
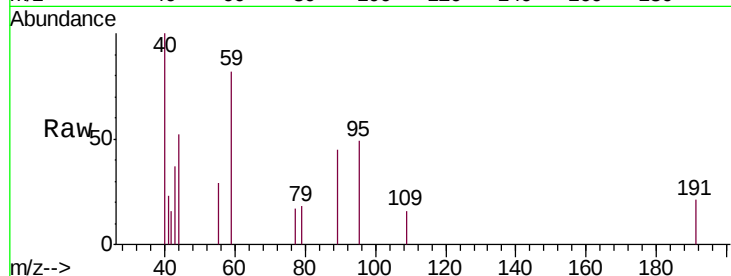


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.18 min Scan# 538
 Delta R.T. 0.02 min
 Lab File: VW013051.D
 Acq: 16 Sep 2019 19:25

Instrument :
 MSVOA_W
 ClientSampleId :
 FK-GF-02-045-A

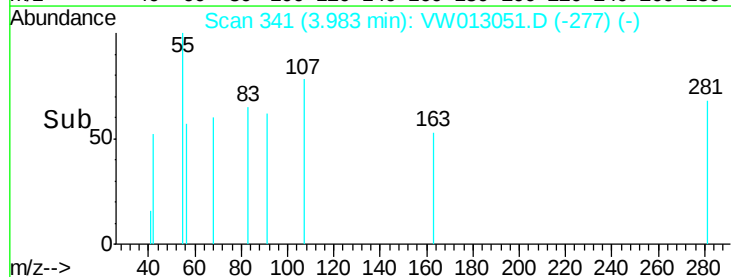
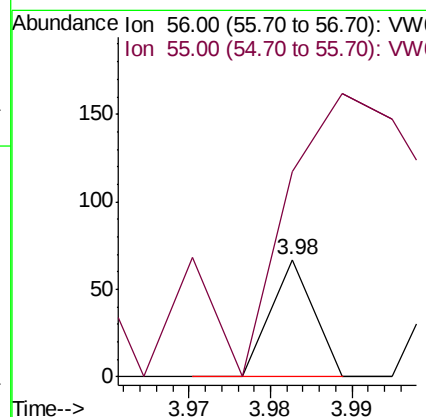
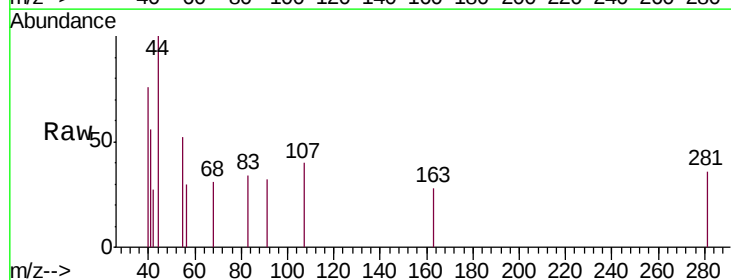
Tgt Ion: 59 Resp: 321
 Ion Ratio Lower Upper
 59 100
 57 29.9 8.5 12.7#

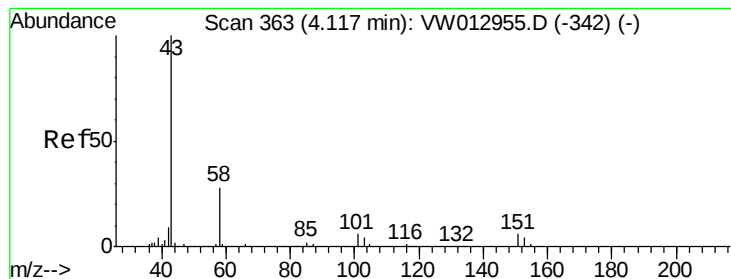


#13

Acrolein
 Concen: Below Cal
 RT: 3.98 min Scan# 341
 Delta R.T. 0.09 min
 Lab File: VW013051.D
 Acq: 16 Sep 2019 19:25

Tgt Ion: 56 Resp: 25
 Ion Ratio Lower Upper
 56 100
 55 880.0 55.8 83.8#





#16

Acetone

Concen: Below Cal

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW013051.D

Acq: 16 Sep 2019 19:25

Instrument :

MSVOA_W

ClientSampleId :

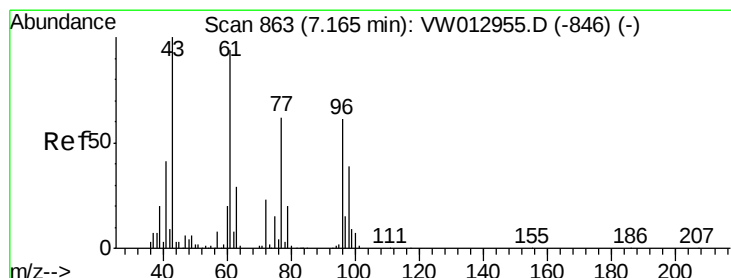
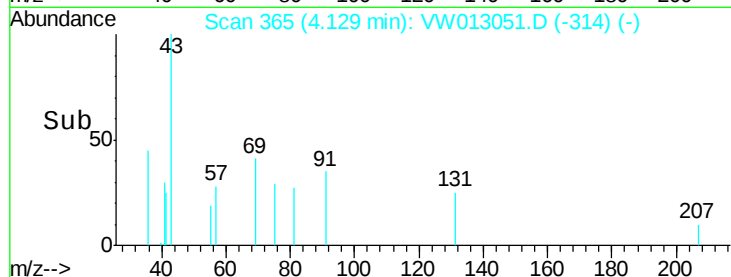
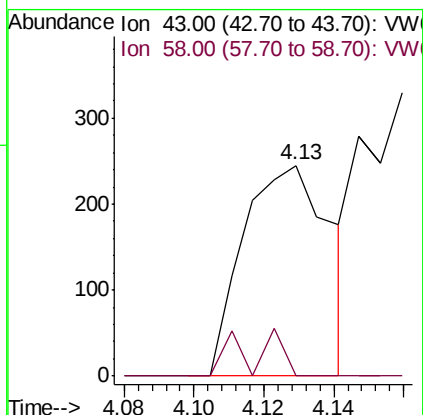
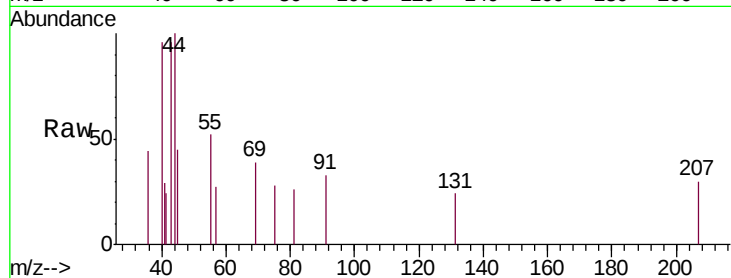
FK-GF-02-045-A

Tgt Ion: 43 Resp: 422

Ion Ratio Lower Upper

43 100

58 0.0 22.3 33.5#



#25

2-Butanone

Concen: 1.177 ug/l

RT: 7.16 min Scan# 862

Delta R.T. -0.01 min

Lab File: VW013051.D

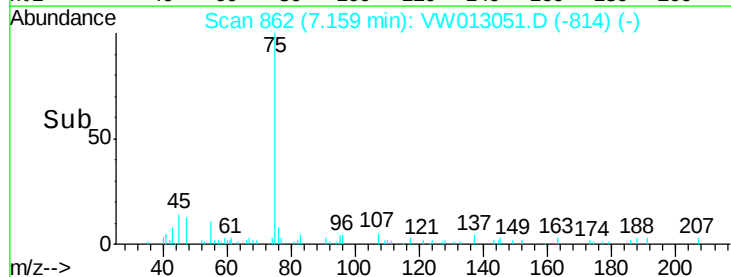
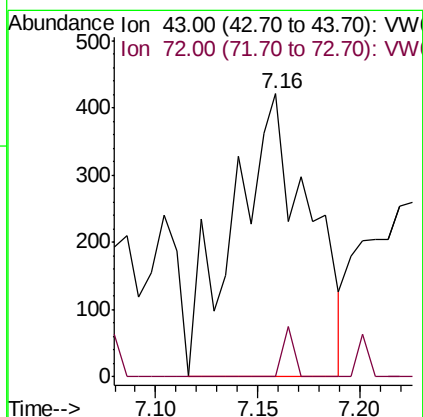
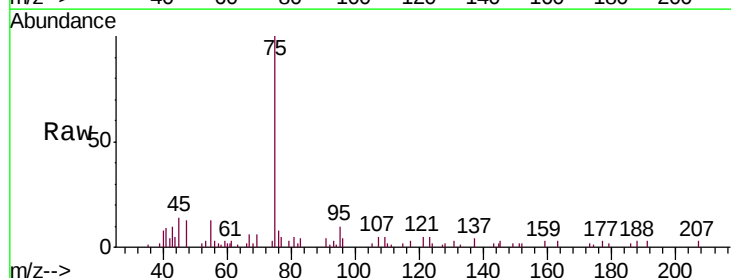
Acq: 16 Sep 2019 19:25

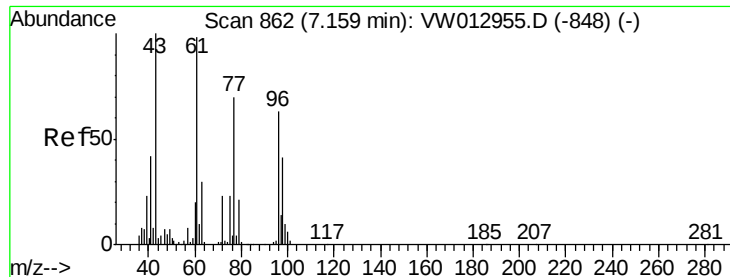
Tgt Ion: 43 Resp: 1078

Ion Ratio Lower Upper

43 100

72 0.0 18.2 27.4#

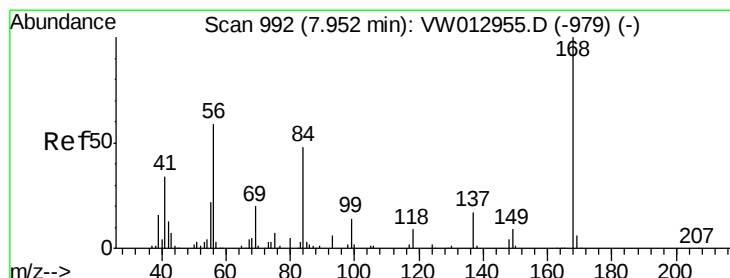
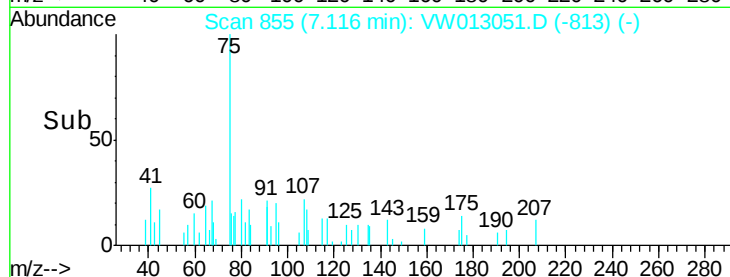
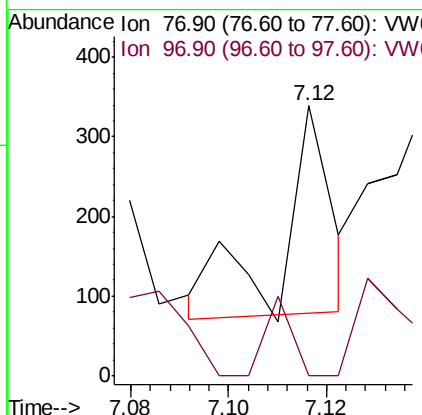
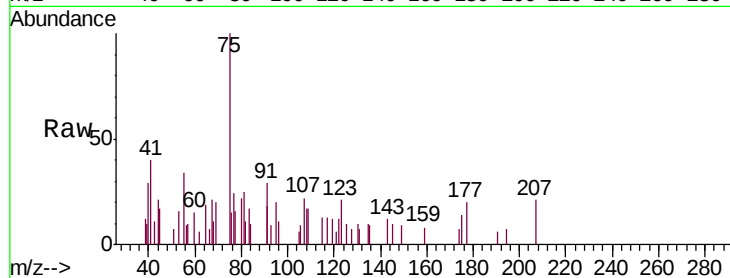




#26
 2,2-Dichloropropane
 Concen: Below Cal
 RT: 7.12 min Scan# 855
 Delta R.T. -0.04 min
 Lab File: VW013051.D
 Acq: 16 Sep 2019 19:25

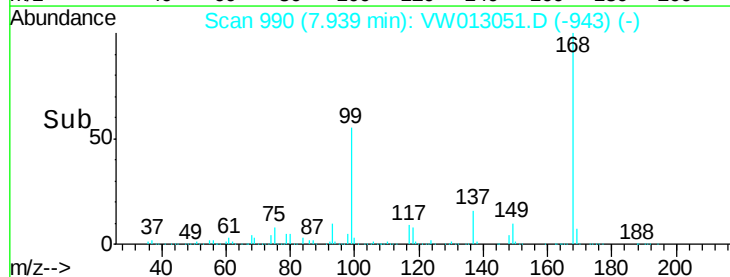
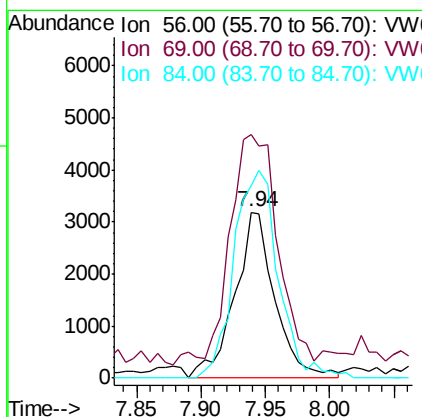
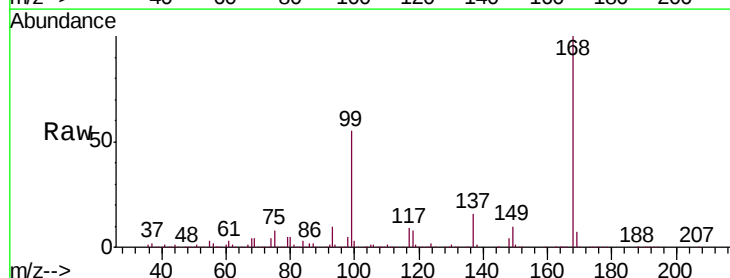
Instrument :
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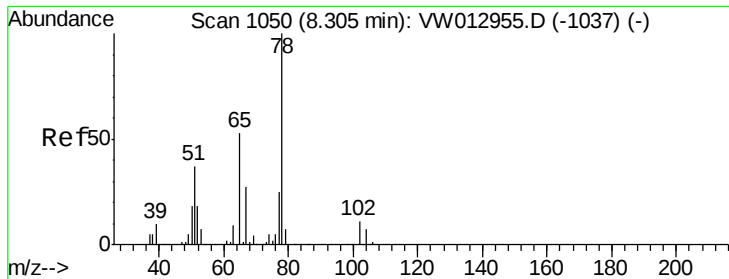
Tgt Ion: 77 Resp: 183
 Ion Ratio Lower Upper
 77 100
 97 20.2 10.7 32.1



#31
 Cyclohexane
 Concen: Below Cal
 RT: 7.94 min Scan# 990
 Delta R.T. -0.01 min
 Lab File: VW013051.D
 Acq: 16 Sep 2019 19:25

Tgt Ion: 56 Resp: 6879
 Ion Ratio Lower Upper
 56 100
 69 131.8 27.0 40.6#
 84 116.3 66.2 99.2#

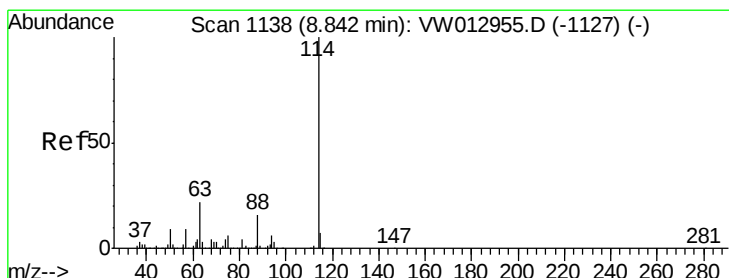
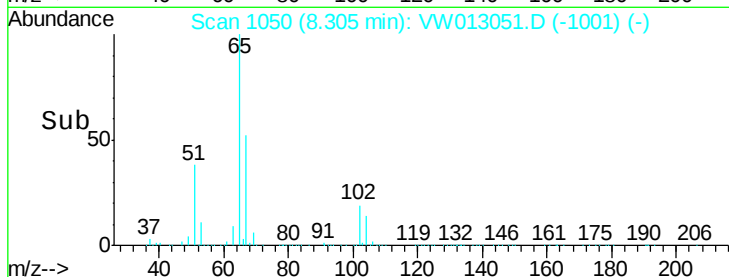
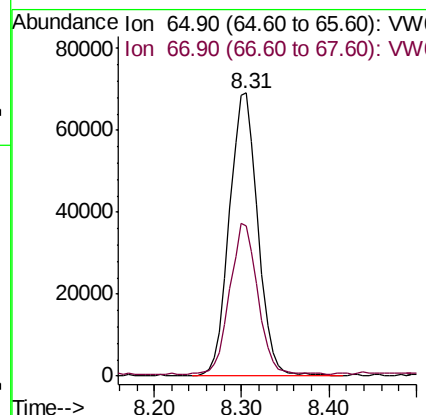
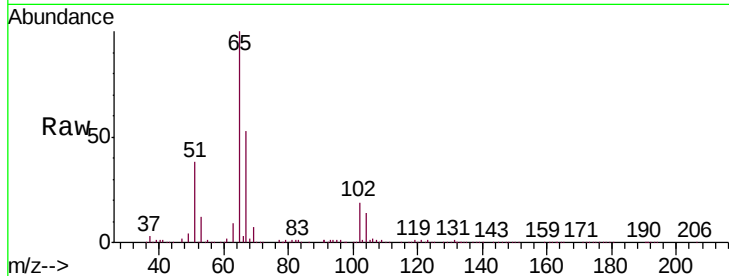




#33
 1,2-Dichloroethane-d4
 Concen: 53.913 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW013051.D
 Acq: 16 Sep 2019 19:25

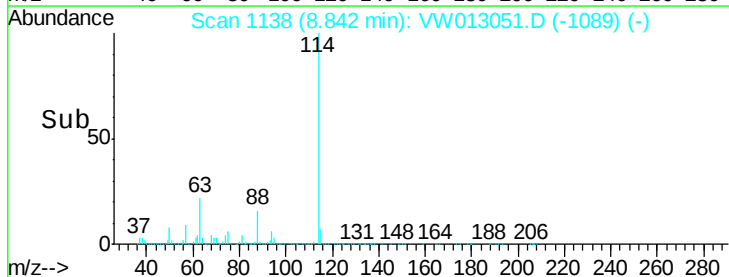
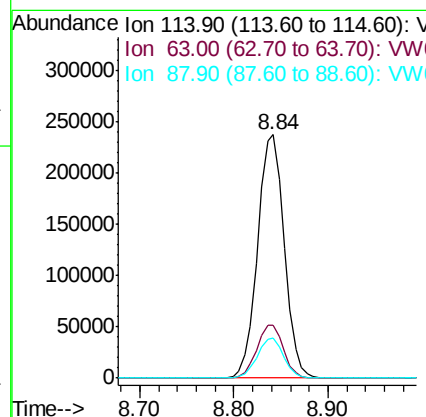
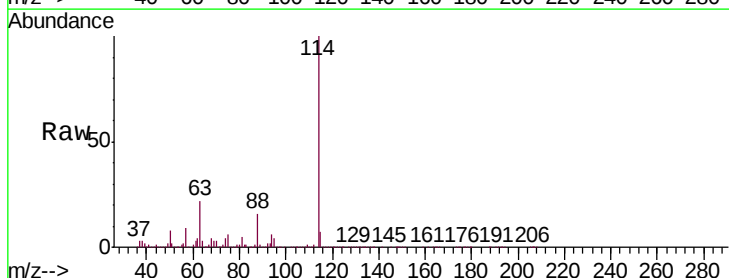
Instrument :
 MSVOA_W
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 FK-GF-02-045-A

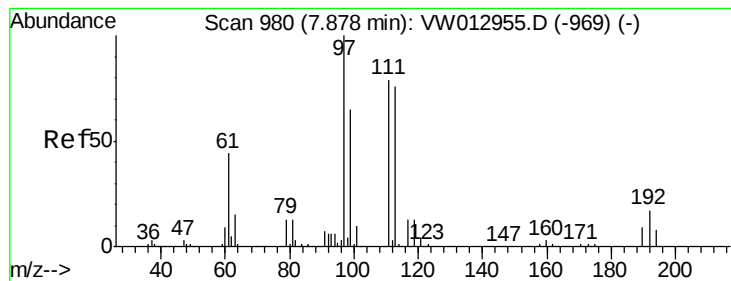
Tgt Ion: 65 Resp: 155233
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 101.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW013051.D
 Acq: 16 Sep 2019 19:25

Tgt Ion: 114 Resp: 468352
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 43.4
 88 16.4 0.0 31.6





#35

Dibromofluoromethane

Concen: 52.197 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.01 min

Lab File: VW013051.D

Acq: 16 Sep 2019 19:25

Instrument :

MSVOA_W

ClientSampleId :

FK-GF-02-045-A

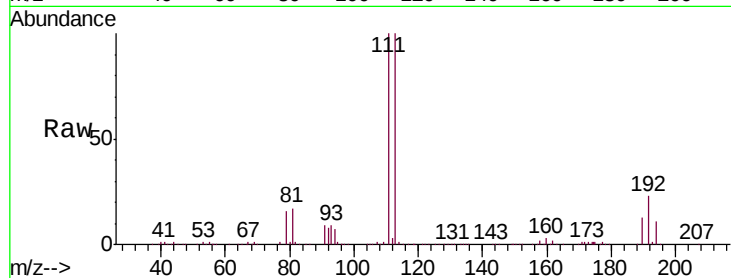
Tgt Ion: 113 Resp: 132650

Ion Ratio Lower Upper

113 100

111 102.3 82.8 124.2

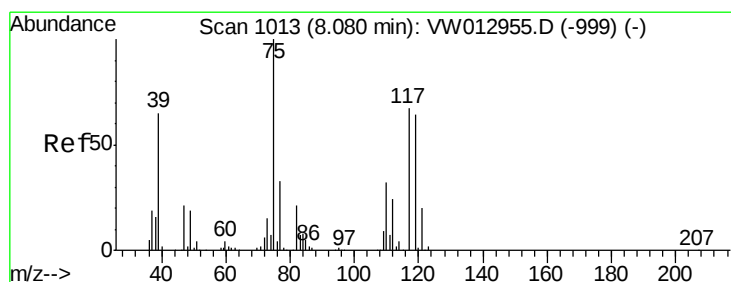
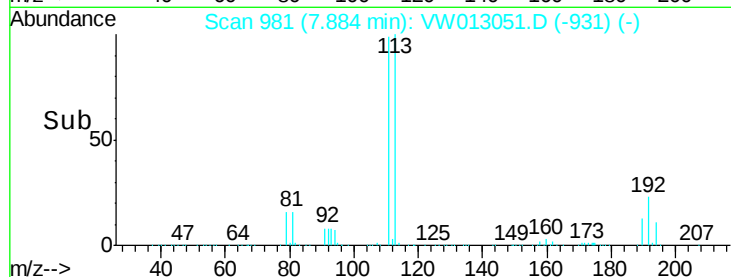
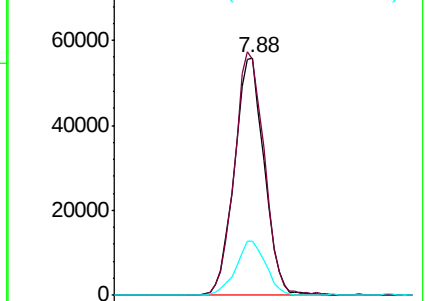
192 22.9 17.8 26.8



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 6.125 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW013051.D

Acq: 16 Sep 2019 19:25

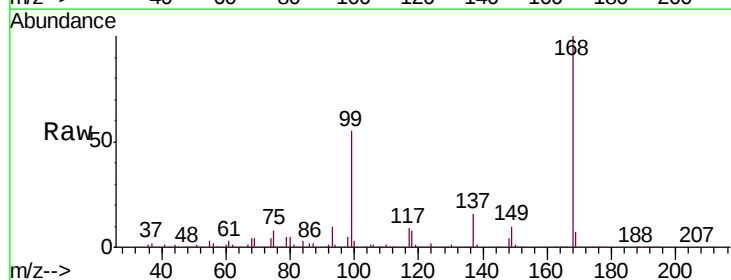
Tgt Ion: 75 Resp: 22924

Ion Ratio Lower Upper

75 100

110 12.3 16.4 49.1#

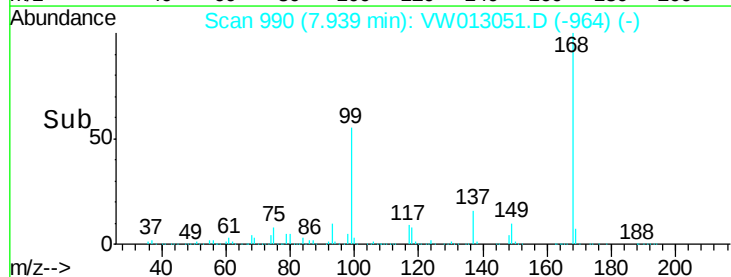
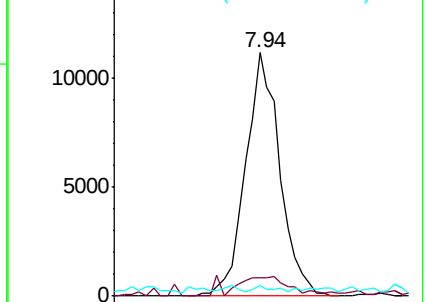
77 0.9 25.1 37.7#

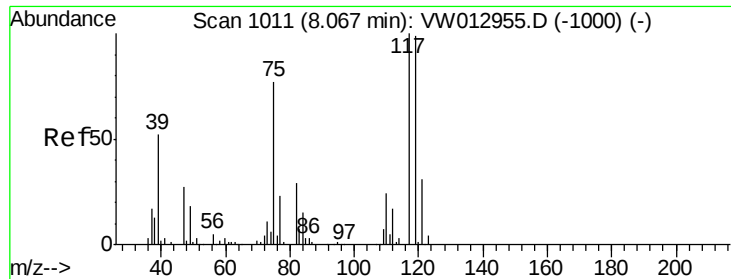


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 7.581 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW013051.D

Acq: 16 Sep 2019 19:25

Instrument :

MSVOA_W

ClientSampleId :

FK-GF-02-045-A

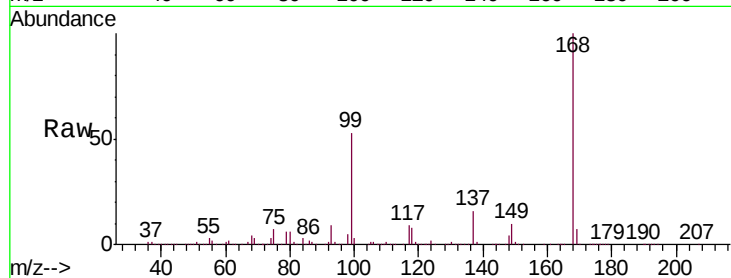
Tgt Ion: 117 Resp: 29075

Ion Ratio Lower Upper

117 100

119 4.9 79.4 119.0#

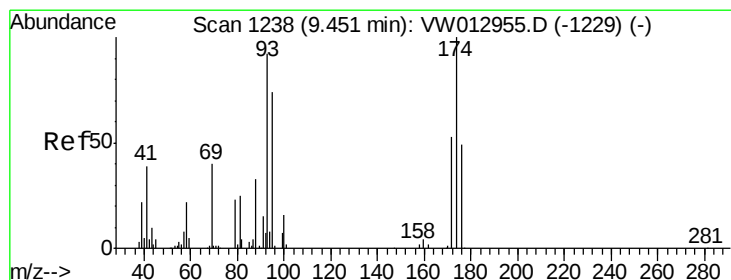
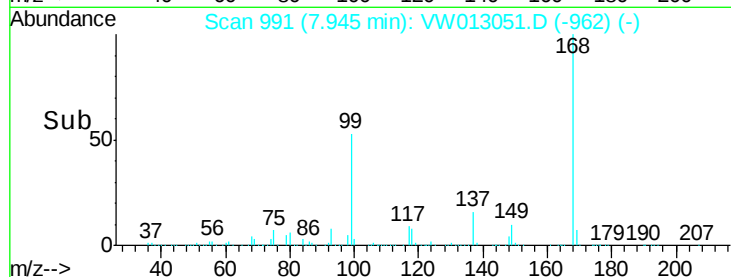
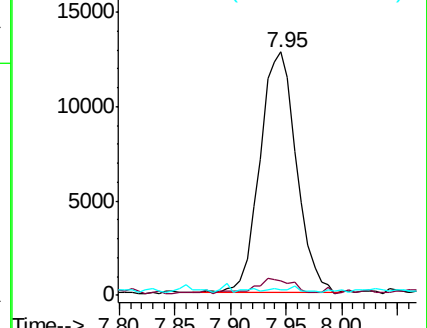
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 1.301 ug/l

RT: 9.37 min Scan# 1225

Delta R.T. -0.08 min

Lab File: VW013051.D

Acq: 16 Sep 2019 19:25

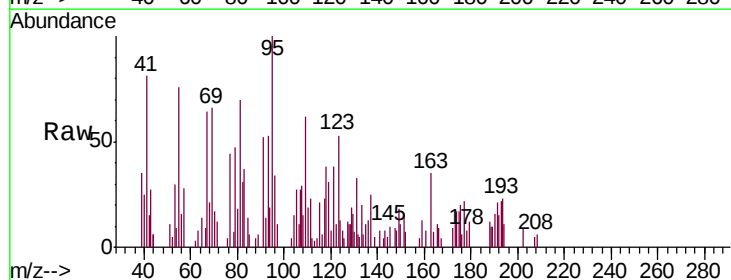
Tgt Ion: 88 Resp: 29

Ion Ratio Lower Upper

88 100

43 844.8 31.3 46.9#

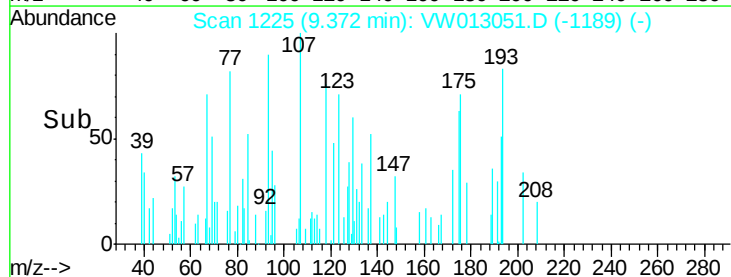
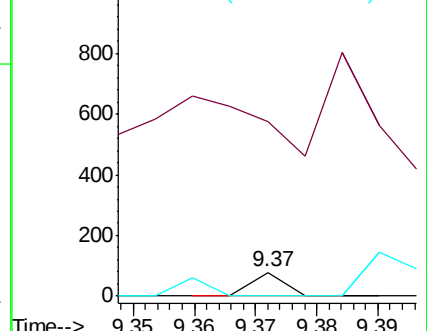
58 75.9 60.2 90.2

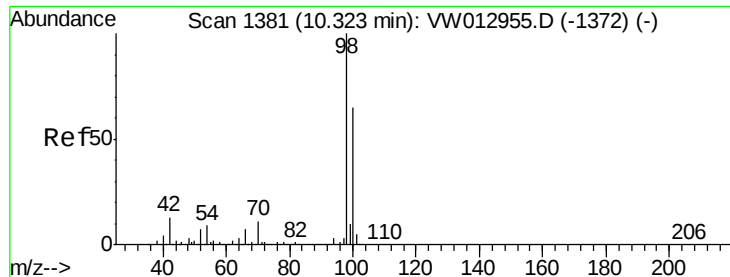


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 55.129 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW013051.D

Acq: 16 Sep 2019 19:25

Instrument :

MSVOA_W

ClientSampleId :

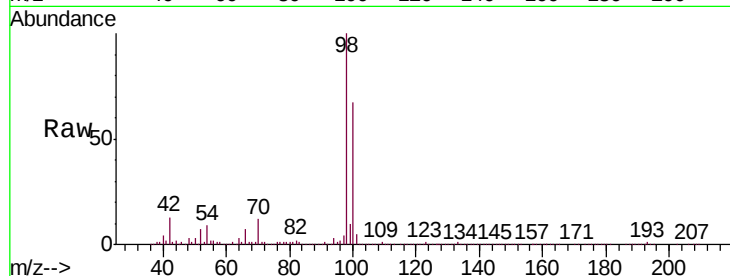
FK-GF-02-045-A

Tgt Ion: 98 Resp: 548231

Ion Ratio Lower Upper

98 100

100 66.0 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

10.32

300000

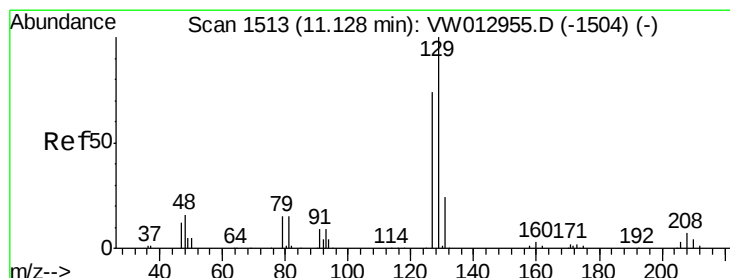
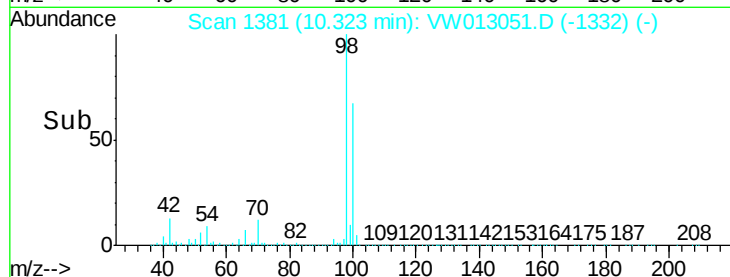
200000

100000

0

Time-->

10.20 10.30 10.40



#60

Dibromochloromethane

Concen: 4.669 ug/l

RT: 11.07 min Scan# 1504

Delta R.T. -0.06 min

Lab File: VW013051.D

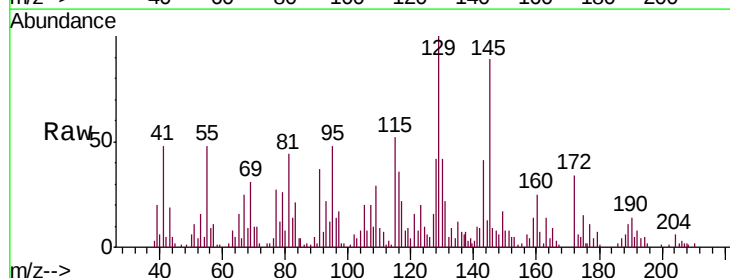
Acq: 16 Sep 2019 19:25

Tgt Ion: 129 Resp: 11435

Ion Ratio Lower Upper

129 100

127 0.0 37.4 112.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

11.07

10000

8000

6000

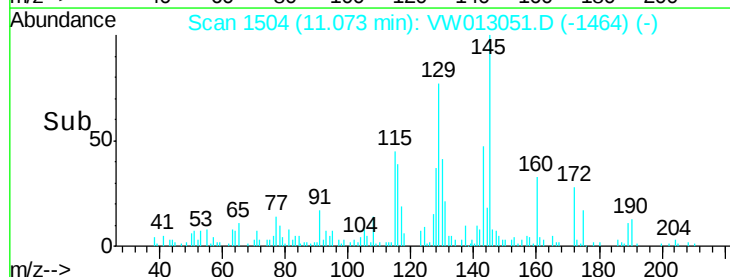
4000

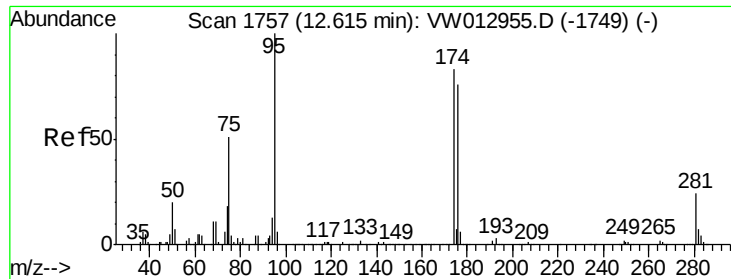
2000

0

Time-->

11.00 11.05 11.10





#62

4-Bromofluorobenzene

Concen: 67.826 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW013051.D

Acq: 16 Sep 2019 19:25

Instrument :

MSVOA_W

ClientSampleId :

FK-GF-02-045-A

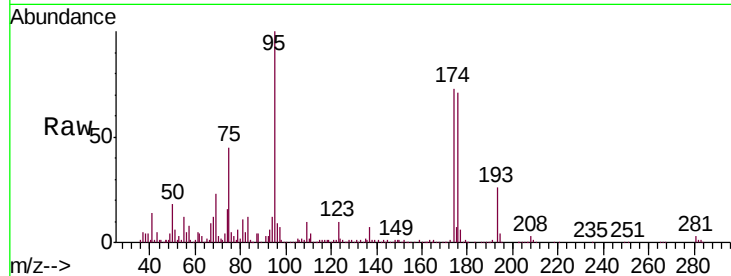
Tgt Ion: 95 Resp: 242533

Ion Ratio Lower Upper

95 100

174 61.0 0.0 170.4

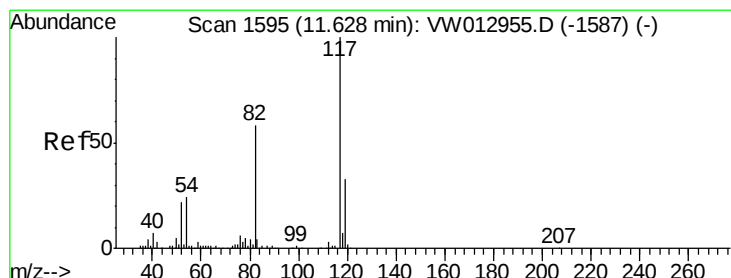
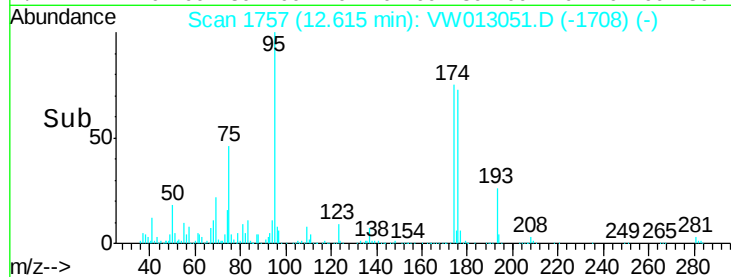
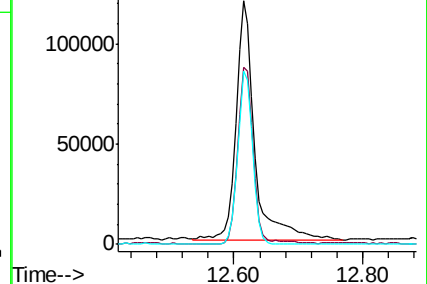
176 57.7 0.0 164.6



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1595

Delta R.T. -0.00 min

Lab File: VW013051.D

Acq: 16 Sep 2019 19:25

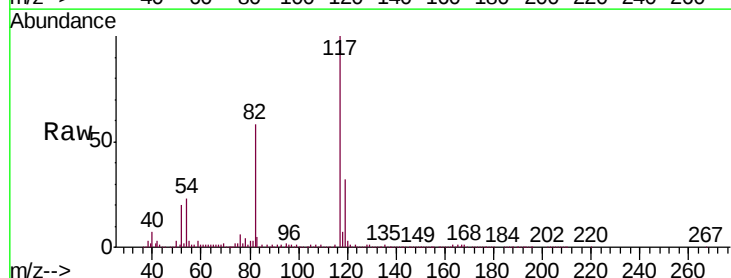
Tgt Ion: 117 Resp: 384365

Ion Ratio Lower Upper

117 100

82 57.4 46.3 69.5

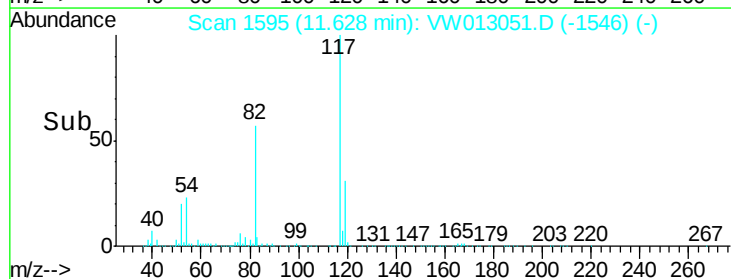
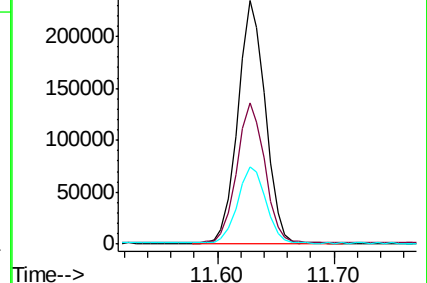
119 31.1 26.2 39.4

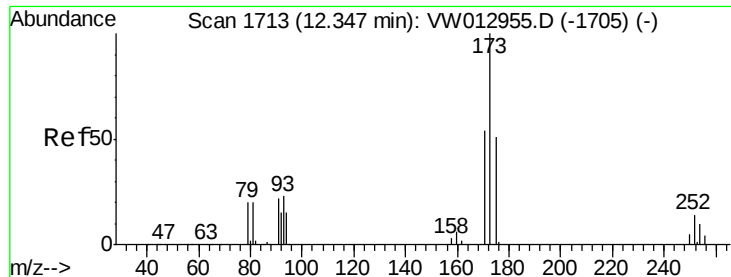


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#71

Bromoform

Concen: 1.584 ug/l

RT: 12.30 min Scan# 1706

Delta R.T. -0.04 min

Lab File: VW013051.D

Acq: 16 Sep 2019 19:25

Instrument :

MSVOA_W

ClientSampleId :

FK-GF-02-045-A

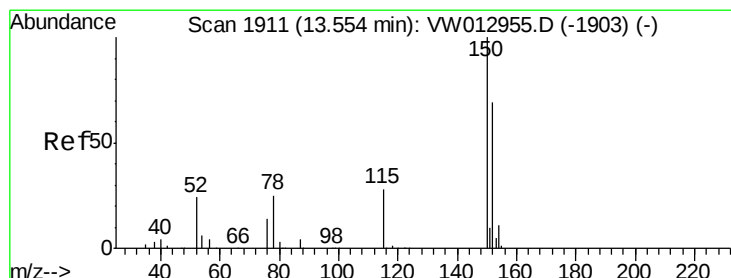
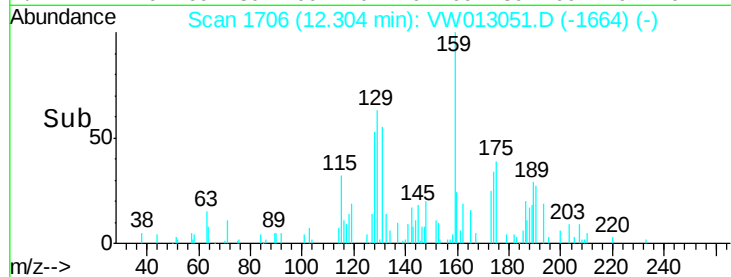
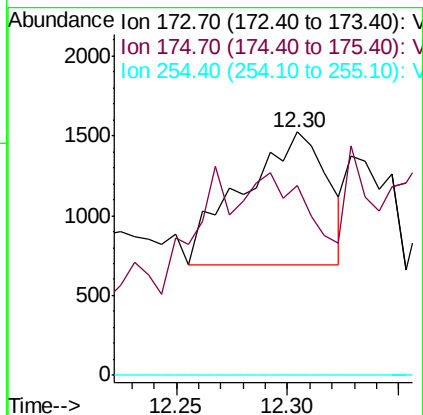
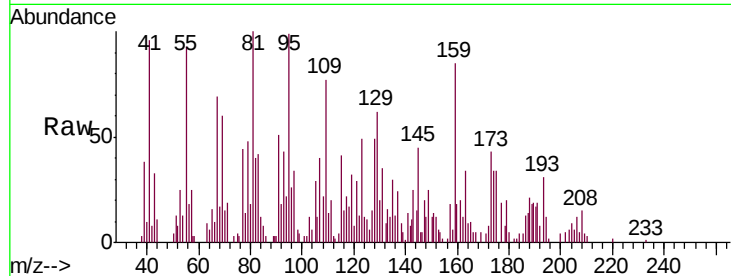
Tgt Ion:173 Resp: 2183

Ion Ratio Lower Upper

173 100

175 0.0 24.2 72.6#

254 0.0 0.1 0.1#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.55 min Scan# 1911

Delta R.T. -0.00 min

Lab File: VW013051.D

Acq: 16 Sep 2019 19:25

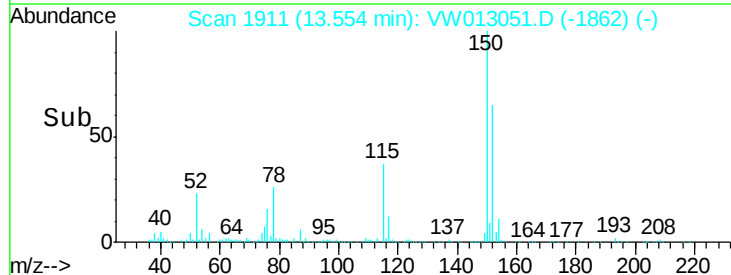
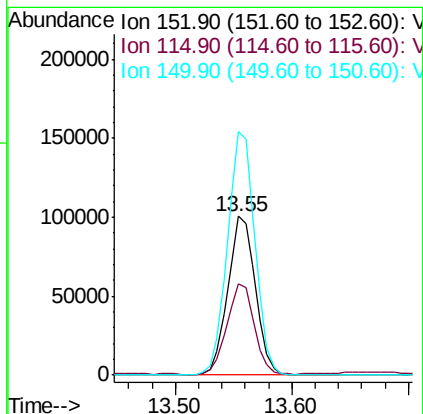
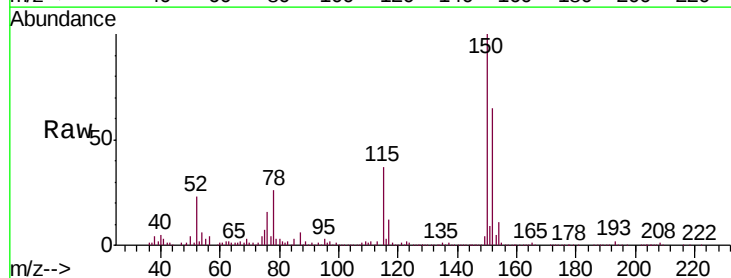
Tgt Ion:152 Resp: 164174

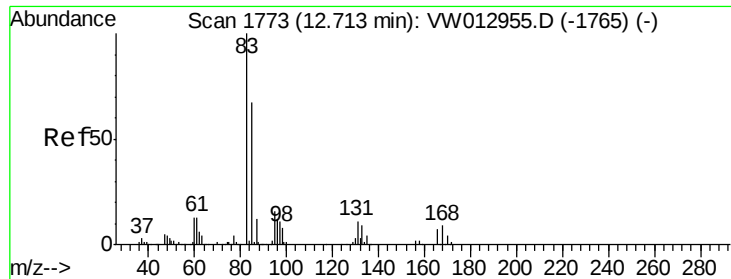
Ion Ratio Lower Upper

152 100

115 56.5 28.8 86.4

150 153.5 0.0 340.2





#75

1,1,2,2-Tetrachloroethane

Concen: 43.116 ug/l

RT: 12.63 min Scan# 1759

Delta R.T. -0.09 min

Lab File: VW013051.D

Acq: 16 Sep 2019 19:25

Instrument :

MSVOA_W

ClientSampleId :

FK-GF-02-045-A

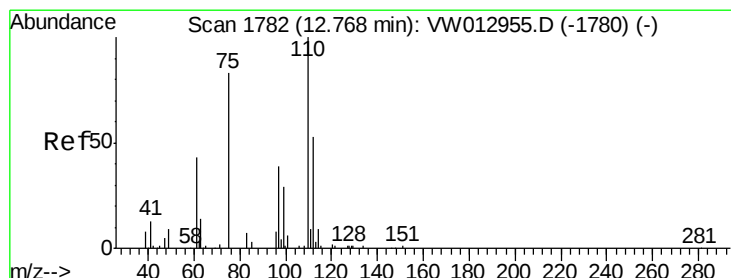
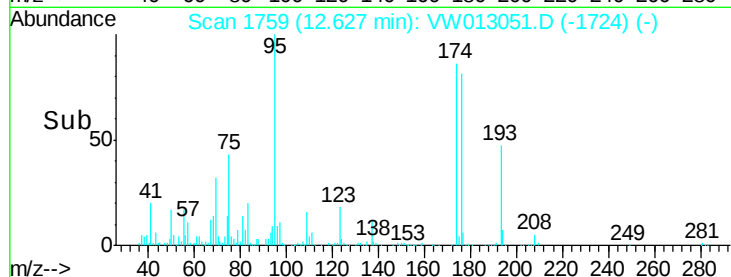
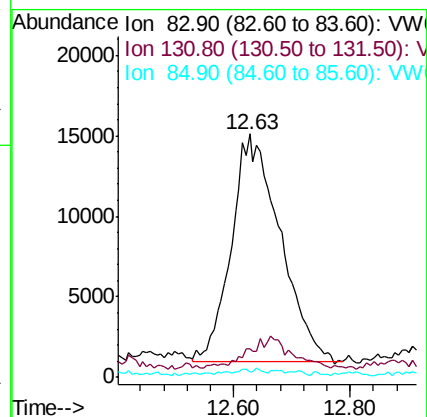
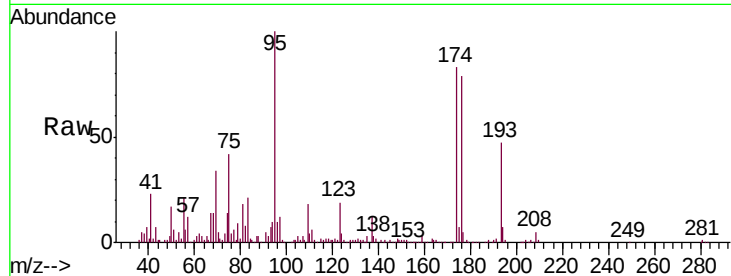
Tgt Ion: 83 Resp: 82406

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.1#

85 0.6 31.4 94.3#



#76

1,2,3-Trichloropropane

Concen: 61.587 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013051.D

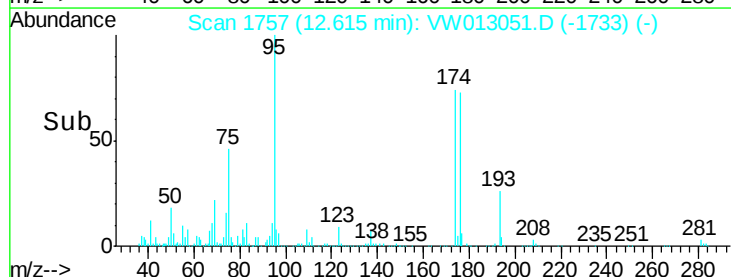
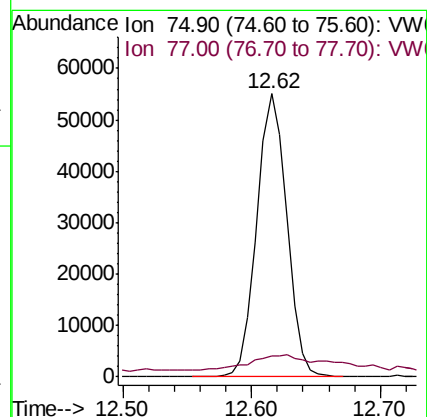
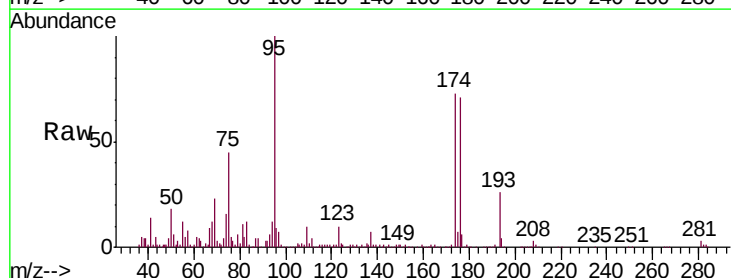
Acq: 16 Sep 2019 19:25

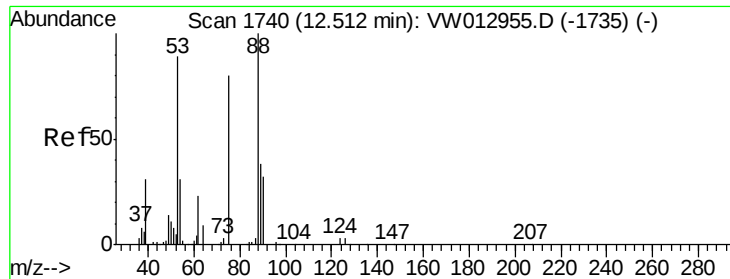
Tgt Ion: 75 Resp: 88564

Ion Ratio Lower Upper

75 100

77 9.5 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 139.709 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013051.D

Acq: 16 Sep 2019 19:25

Instrument :

MSVOA_W

ClientSampleId :

FK-GF-02-045-A

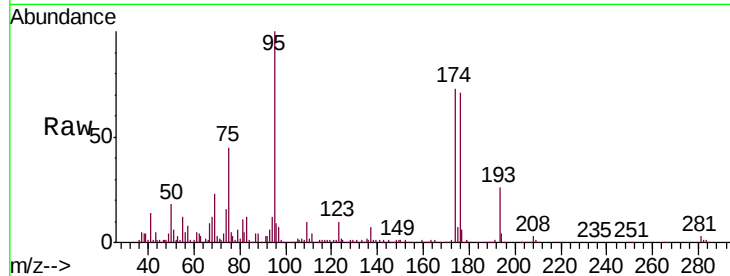
Tgt Ion: 75 Resp: 88564

Ion Ratio Lower Upper

75 100

53 0.0 85.6 128.4#

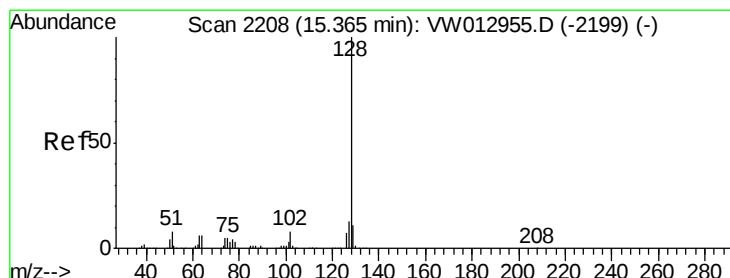
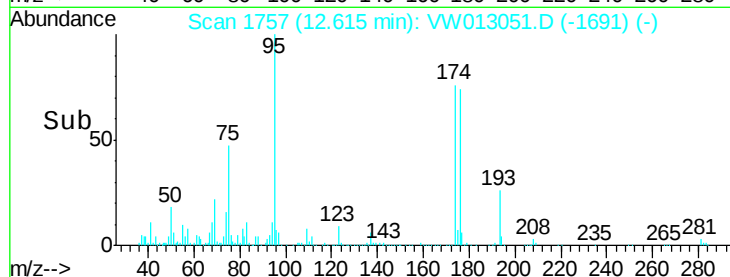
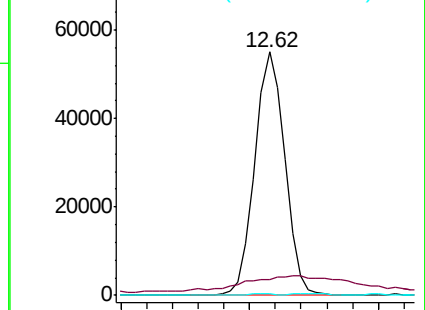
89 0.5 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW



#95

Naphthalene

Concen: 1.955 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.01 min

Lab File: VW013051.D

Acq: 16 Sep 2019 19:25

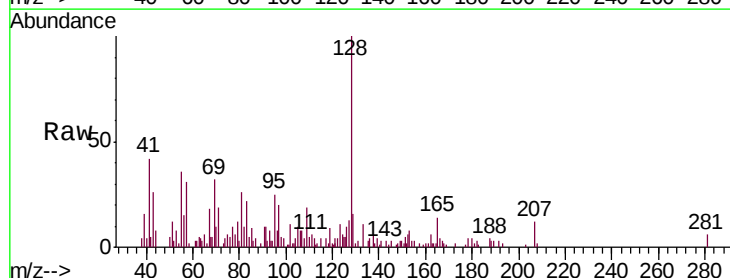
Tgt Ion: 128 Resp: 10169

Ion Ratio Lower Upper

128 100

127 9.8 11.0 16.6#

129 15.7 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

